

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): GLUKHOVSKY,
Arkady et al. EXAMINER: Not Yet Assigned

SERIAL NO.: Not Yet Assigned GROUP ART UNIT: Not Yet Assigned

FILED: Herewith Attorney Docket No.: P-2648-US1

FOR.: SYSTEM AND METHOD FOR CONTROLLING IN VIVO CAMERA
CAPTURE AND DISPLAY RATE

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98, this Information Disclosure Statement includes Form PTO-1449:

1. ☐ listing documents including patents, publications, and other information for consideration by the Examiner, copies of which are included with this information disclosure statement;
2. ☒ listing documents including patents, publications and other information that have been previously cited or submitted to the Patent Office in prior application U.S. Serial No. 09/571,326, filed May 15, 2000 which is properly identified and relied on for an earlier effective filing date under 35 U.S.C. 120 for consideration by the Examiner; however, in accordance with 37 C.F.R. 1.98(d), copies of such documents are not included in this information disclosure statement; and/or
3. ☒ listing other information for the Examiner's consideration which was cited in a communication from a foreign patent office in a counterpart foreign application, a copy of which is included with this information disclosure statement.

The information herein cited is only in fulfillment of Applicant(s) duty of candor in disclosing all information brought to Applicant(s) attention. This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the

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listed documents are material or constitute "prior art". If it should be determined that any of the listed documents do not constitute "prior art" under United States law, Applicant(s) reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant(s) further reserve(s) the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

In accordance with MPEP Sections 609 and 707.05(b), it is requested that each and every document cited (including any cited in applicant's specification which is not repeated on the attached Form PTO-1449) be given thorough consideration and that it be cited of record in the prosecution history of the present application by initialing on Form PTO-1449. Such initialing is requested even if the Examiner does not consider it to be prior art for any reason, or even if the Examiner does not believe that the guidelines for citation have been fully complied with. This is requested so that each document becomes listed on the face of the patent issuing on the present application and is evidence that the Examiner has considered the document.

This Information Disclosure Statement is being filed:

I) ☒ Within three (3) months of filing the subject Application or entry of the subject Application into the national stage or before mailing of the first Office Action on the merits of the subject Application or a request for continued examination thereof, whichever event occurs last pursuant to of 37 C.F.R §1.97 (b); or

II) ☐ After the period specified in (I) but before the mailing date of either a final Official Action under 37 C.F.R §1.113 or a notice of allowance under 37 C.F.R §1.311 whichever occurs first and;

1. ☐ the undersigned hereby states that each item of information listed on the Form PTO-1449 was either (i) cited in a communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to the filing of this Information Disclosure Statement or (ii) not cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, not known to any individual designated in §1.56(c) more than three (3) months prior to the filing of this information disclosure statement; or

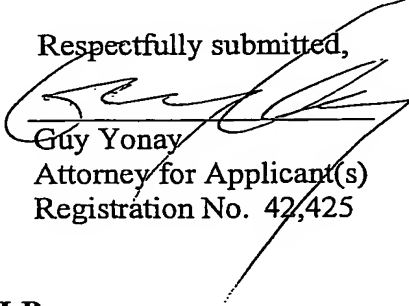
2. ☐ the undersigned hereby authorizes the Patent Office to charge the fee in the amount of \$180.00 under 37 C.F.R §1.17 (p) to Deposit Account 05-0649.

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- III) ☐ After the period in (I) and (II) but before the payment of the issue fee and,
1. The undersigned hereby states:
- a) ☐ that each item of information cited on the form PTO-1449 was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three (3) months prior to the filing of this Information Disclosure Statement; or
- b) ☐ that no items of information contained in Form PTO-1449 was cited in a communication from a foreign patent office in a counterpart foreign application, and to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement; and
2. ☐ The undersigned hereby authorizes the Patent Office to charge the Petition fee in the Amount of \$180.00 under 37 C.F.R §1.17 (p) to Deposit Account 05-0649.

Except for issue fees payable under 37 C.F.R. §1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. §§1.16 and 1.17 which may be required, including any required extension of time fees, or credit any overpayment to Deposit Account No. 05-0649.

Respectfully submitted,


Guy Yonay
Attorney for Applicant(s)
Registration No. 42,425

Dated: November 13, 2003

Eitan, Pearl, Latzer & Cohen Zedek, LLP.
10 Rockefeller Plaza, Suite 1001
New York, New York 10020
Tel: (212) 632-3480
Fax: (212) 632-3490

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

Applicant

GLUKHOVSKY, Arkady et al.

Filing Date

Group

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U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA	4,278,077	July 14, 1981	Mizumoto			
	AB	5,209,220	May 11, 1993	Hiyama, et al.			
	AC	5,604,531	Feb. 18, 1997	Iddan, et al.			
	AD	3,971,362	July 27, 1976	Pope, et al.			
	AE	4,689,621	August 25, 1987	Kleinberg			
	AF	4,844,076	July 4, 1989	Lesho, et al.			
	AG	5,262,871	Nov. 16, 1993	Wilder, et al.			
	AH	5,279,607	Jan. 18, 1994	Schentag, et al.			
	AI	5,452,004	Sep. 19, 1995	Roberts			
	AJ	5,819,736	Oct. 13, 1998	Avny, et al.			
	AK	5,833,603	Nov. 10, 1998	Kovacs, et al.			

Foreign Patent Documents

							Translation	
*Examiner Initial		Document Number	Date	Country	Class	Subclass	Yes	No
	AL	WO 99/30610	June 24, 1999					
	AM	DE 34 40 177	May 15, 1986	Germany				
	AN	JP 4109927	April 10, 1992	Japan				
	AO	JP 5015515	Jan. 26, 1993	Japan				

OTHER ART

(Including Author, Title, Date, Pertinent Pages, Etc.)

*Examiner Initial	AP	"Machine Vision: Theory, Algorithms, Practicalities" - E.R. Davies
	AQ	"Non-Lambertian Shading and Photometric Stereo" - Tagare, et al., SPIE Vol. 1260 Sensing and Reconstruction of Three-Dimensional Objects and Scenes (1990)
	AR	"Robust shape reconstruction from combined shading and stereo information" - Lee, et al., SPIE Vol. 1771 Applications of Digital Image Processing XV (1992), pp. 171-182
	AS	"Shedding light on cancer diagnosis" - Powell (Ed.), May 2000, Laser Focus World.

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Date Considered -

Form PTO-1449

U.S. Department of Commerce,
Patent and Trademark Office

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U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AT	5,853,005	Dec. 29, 1998	Scanlon			
	AU	6,428,469	Aug. 6, 2002	Iddan, et al.			
	AV	Re. 34965	June 13, 1995	Sugiyama			
	AW	US App. 2002/0103417	Aug. 1, 2002	Gazdzinski			

Foreign Patent Documents

*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No

OTHER ART

(Including Author, Title, Date, Pertinent Pages, Etc.)

*Examiner Initial	AX	"Simulation of images by photometric stereo modeling", Russell, et al., Optical Engineering, September 1991, Vol. 30, No. 9, pp. 1337-1345
	AY	"Surface Representation from Photometric Stereo with Wavelets", Sinzinger, et al., SPIE Vol. 3169
	AZ	"The Radio Pill", Rowlands, et al., British Communications and Electronics, August 1960, pp. 598-601
	BA	"Two Image Photometric Stereo Method", Yang et al., SPIE Vol. 1826, Intelligent Robots and Computer Vision XI (1992)
	BB	"Video Camera to 'TAKE' " - RF System lab, December 25, 2001
	BC	"Wellesley company sends body montiors into space" - Crum, 1998
	BD	"Wireless transmission of a color television moving image from the stomach using a miniature CCD camera, light source and microwave transmitter". Swain CP, Gong F, Mills TN. Gastrointest Endosc 1997;45:AB40.
	BE	"BBC News Online - Pill camera to 'broadcast from the gut' ", February 21, 2000, www.news.bbc.co.uk
	BF	"Estimating Motion in Image Sequences", Stiller et al., IEEE Signal Processing Magazine, July 1999, pp.70-91
	BG	International Search Report of PCT/IL01/00427 dated September 19, 2002

Examiner

Date Considered

*EXAMINER: Initial if reference considered; whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.